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**Amendments to the Claims**

1. (currently amended) A method for planning stimulation of hyper/hypometabolic cortical areas, ~~said the method comprising:~~  
determining functional anatomical patient data ~~using an imaging method;~~  
determining structural anatomical patient data;  
navigationally registering the functional anatomical data with the structural anatomical data such that the functional anatomical data are available for navigation;  
based on the functional anatomical data, detecting positions of ~~(i)~~ the hyper/hypometabolic cortical areas in a patient's anatomy ~~and (ii);~~  
detecting a position of a stimulator;  
at least one of (i) registering ~~and~~ or (ii) referencing the position of the hyper/hypometabolic cortical areas with respect to the position of the stimulator; and  
determining an optimal positioning for the stimulator on the basis of the relative positional information.
2. (original) The method as set forth in claim 1, wherein the detecting step is performed using a medical navigation system.
3. (original) The method as set forth in claim 1, wherein the stimulation is planned of hypermetabolic areas related to the manifestation of systemic tinnitus.
4. (cancelled)
5. (cancelled)
6. (original) The method as set forth in claim 4, wherein the functional image detection method includes at least one of (i) functional magnetic resonance detection and (ii) positron emission tomography (PET).

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7. (original) The method as set forth in claim 1, wherein the detecting step includes using a navigation system to optically detect arrangements of actively or passively emitting markers arranged on the patient's head and on the stimulation means.

8. (original) The method as set forth in claim 1, wherein the detecting step includes using a navigation system to magnetically or inductively detect (i) at least one of (a) positional coils and (b) oscillating circuits, arranged on the patient's head and on the stimulator.

9. (original) The method as set forth in claim 1, wherein the stimulator includes a cortical stimulation coil.

10. (original) The method as set forth in claim 2, further comprising:  
outputting detected navigational data together with the determined optimal positioning on an image output.

11. (original) The method as set forth in claim 1, further comprising:  
calibrating the stimulator.

12. (original) The method as set forth in claim 1, further comprising:  
simulating a field distribution for the stimulator; and  
determining stimulation areas based on the simulated field distribution.

13. (cancelled)

14. (currently amended) A computer program storage medium comprising a program ~~as set forth in claim 13~~ which, when it is run on a computer or is loaded onto a computer, causes the computer to perform a method in accordance with claim 1.

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15. (new) A method of stimulating hyper/hypometabolic cortical areas of a patient, the method comprising:

simulating a field distribution for a stimulation coil relative to a position of the stimulation coil;

determining a stimulation area for the stimulation coil relative to a position of the coil;

determining functional anatomical patient data;

determining structural anatomical patient data;

navigationally registering the functional anatomical data with the structural anatomical data such that the functional anatomical data are available for navigation;

detecting the position of the stimulation coil;

navigationally registering the field distribution of the stimulation coil;

registering the position of the functional anatomical data with respect to the position of the stimulation coil; and

positioning the stimulation coil on the basis of the relative positional information.